

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/485,529

DATE: 06/25/2001

TIME: 08:53:29

Input Set : A:\620-91.app

Output Set: N:\CRF3\06252001\I485529.raw

P.S

3 <110> APPLICANT: Harberd, Nicholas P
 4 Richards, Donald E
 5 Peng, Jinrong
 7 <120> TITLE OF INVENTION: Genetic Control of Plant Growth and Development
 9 <130> FILE REFERENCE: 620-91
 11 <140> CURRENT APPLICATION NUMBER: US 09/485,529
 C--> 12 <141> CURRENT FILING DATE: 2000-03-01
 14 <150> PRIOR APPLICATION NUMBER: PCT/GB98/02383
 15 <151> PRIOR FILING DATE: 1998-08-07
 17 <150> PRIOR APPLICATION NUMBER: GB 9717192.0
 18 <151> PRIOR FILING DATE: 1997-08-13
 20 <160> NUMBER OF SEQ ID NOS: 108
 22 <170> SOFTWARE: PatentIn Ver. 2.0
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ENTERED

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119 Ala Gly Gly Ser Gly Gly Gly Gly Gly Gly Met Gly Ser Glu Asp Lys
120 20 25 30
122 Met Met Val Ser Ala Ala Ala Gly Glu Gly Glu Glu Val Asp Glu Leu
123 35 40 45
125 Leu Ala Ala Leu Gly Tyr Lys Val Arg Ala Ser Asp Met Ala Asp Val
126 50 55 60
128 Ala Gln Lys Leu Glu Lys Leu Glu Met Ala Met Gly Met Gly Gly Val
129 65 70 75 80
W--> 131 Gly Ala Gly Ala Ala Pro Asp Arg Gln Val Xaa His Pro Xaa Ala Ala
132 85 90 95
W--> 134 Asp Thr Val Xaa Tyr Asn Pro Thr Asp Xaa Ser Ser Trp Val Glu Ser
135 100 105 110

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W--> 137 Met Leu Ser Glu Leu Xaa Glu Pro Xaa Pro Pro Leu Pro Pro Ala Pro
      138          115          120          125
W--> 140 Gln Leu Asn Ala Ser Thr Val Thr Gly Ser Gly Gly Tyr Xaa Asp Leu
      141          130          135          140
      143 Pro Pro Ser Val Asp Ser Ser Ser Ser Ile Tyr Ala Leu Arg Pro Ile
      144 145          150          155          160
      146 Pro Ser Pro Ala Gly Ala Thr Ala Pro Ala Asp Leu Ser Ala Asp Ser
      147          165          170          175
      149 Val Arg Asp Pro Lys Arg Met Arg Thr Gly Gly Ser Ser Thr Ser Ser
      150          180          185          190
W--> 152 Ser Ser Ser Ser Xaa Ser Ser Leu Gly Gly Gly Ala Arg Ser Ser Val
      153          195          200          205
      155 Val Glu Ala Ala Pro Pro Val Ala Ala Ala Ala Asn Ala Thr Pro Ala
      156          210          215          220
      158 Leu Pro Val Val Val Val Asp Thr Gln Glu Ala Gly Ile Arg Leu Val
      159 225          230          235          240
      161 His Ala Leu Leu Ala Cys Ala Glu Ala Val Gln Gln Glu Asn Leu Ser
      162          245          250          255
      164 Ala Ala Glu Ala Leu Val Lys Gln Ile Pro Leu Leu Ala Ala Ser Gln
      165          260          265          270
      167 Gly Gly Ala Met Arg Lys Val Ala Tyr Phe Gly Glu Ala Leu Ala
      168          275          280          285
      170 Arg Arg Val Phe Arg Phe Arg Pro Gln Pro Asp Ser Ser Leu Leu Asp
      171          290          295          300
      173 Ala Ala Phe Ala Asp Leu Leu His Ala His Phe Tyr Glu Ser Cys Pro
      174 305          310          315          320
      176 Tyr Leu Lys Phe Ala His Phe Thr Ala Asn Gln Ala Ile Leu Glu Ala
      177          325          330          335
      179 Phe Ala Gly Cys Arg Arg Val His Val Val Asp Phe Gly Ile Lys Gln
      180          340          345          350
      182 Gly Met Gln Trp Pro Ala Leu Leu Gln Ala Leu Ala Leu Arg Pro Gly
      183          355          360          365
      185 Gly Pro Pro Ser Phe Arg Leu Thr Gly Val Gly Pro Pro Gln Pro Asp
      186          370          375          380
      188 Glu Thr Asp Ala Leu Gln Gln Val Gly Trp Lys Leu Ala Gln Phe Ala
      189 385          390          395          400
      191 His Thr Ile Arg Val Asp Phe Gln Tyr Arg Gly Leu Val Ala Ala Thr
      192          405          410          415
      194 Leu Ala Asp Leu Glu Pro Phe Met Leu Gln Pro Glu Gly Glu Glu Asp
      195          420          425          430
W--> 197 Pro Asn Glu Xaa Pro Xaa Val Ile Ala Val Asn Ser Val Phe Glu Met
      198          435          440          445
      200 His Arg Leu Leu Ala Gln Pro Gly Ala Leu Glu Lys Val Leu Gly His
      201          450          455          460
W--> 203 Arg Ala Pro Pro Cys Gly Pro Glu Phe Xaa Thr Val Val Glu Thr Gln
      204 465          470          475          480
      206 Glu Ala Asn His Asn Ser Gly Thr Phe Leu Asp Arg Phe Thr Glu Ser
      207          485          490          495
      209 Leu His Tyr Tyr Ser Thr Met Phe Asp Ser Leu Glu Gly Gly Ser Ser

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210          500          505          510
212 Gly Gly Gly Pro Ser Glu Val Ser Ser Gly Ala Ala Ala Pro Ala
213          515          520          525
W--> 215 Ala Ala Gly Thr Asp Gln Val Xaa Ser Glu Val Tyr Leu Gly Arg Gln
216          530          535          540
W--> 218 Ile Cys Asn Val Val Ala Cys Glu Gly Ala Glu Arg Thr Xaa Arg His
219 545          550          555          560
221 Glu Thr Leu Gly Gln Trp Arg Asn Arg Leu Gly Asn Ala Gly Phe Glu
222          565          570          575
W--> 224 Thr Val His Leu Gly Ser Asn Ala Tyr Lys Gln Ala Xaa Thr Leu Leu
225          580          585          590
W--> 227 Ala Leu Phe Ala Gly Gly Glu Arg Leu Xaa Val Glu Glu Lys Glu Gly
228          595          600          605
W--> 230 Cys Leu Thr Leu Gly Leu His Thr Xaa Pro Leu Ile Ala Thr Ser Ala
231          610          615          620
233 Trp Arg Leu Ala Gly Pro
234 625          630
237 <210> SEQ ID NO: 2
238 <211> LENGTH: 532
239 <212> TYPE: PRT
240 <213> ORGANISM: Arabidopsis thaliana
242 <400> SEQUENCE: 2
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246 Met Asn Glu Glu Asp Asp Gly Asn Gly Met Asp Glu Leu Leu Ala Val
247          20          25          30
249 Leu Gly Tyr Lys Val Arg Ser Ser Glu Met Ala Asp Val Ala Gln Lys
250          35          40          45
252 Leu Glu Gln Leu Glu Val Met Met Ser Asn Val Gln Glu Asp Asp Leu
253          50          55          60
255 Ser Gln Leu Ala Thr Glu Thr Val His Tyr Asn Pro Ala Glu Leu Tyr
256 65          70          75          80
258 Thr Trp Leu Asp Ser Met Leu Thr Asp Leu Asn Pro Pro Ser Ser Asn
259          85          90          95
261 Ala Glu Tyr Asp Leu Lys Ala Ile Pro Gly Asp Ala Ile Leu Asn Gln
262          100          105          110
264 Phe Ala Ile Asp Ser Ala Ser Ser Asn Gln Gly Gly Gly Gly Asp
265          115          120          125
267 Thr Tyr Thr Thr Asn Lys Arg Leu Lys Cys Ser Asn Gly Val Val Glu
268          130          135          140
270 Thr Thr Thr Ala Thr Ala Glu Ser Thr Arg His Val Val Leu Val Asp
271 145          150          155          160
273 Ser Gln Glu Asn Gly Val Arg Leu Val His Ala Leu Leu Ala Cys Ala
274          165          170          175
276 Glu Ala Val Gln Lys Glu Asn Leu Thr Val Ala Glu Ala Leu Val Lys
277          180          185          190
279 Gln Ile Gly Phe Leu Ala Val Ser Gln Ile Gly Ala Met Arg Lys Val
280          195          200          205
282 Ala Thr Tyr Phe Ala Glu Ala Leu Ala Arg Arg Ile Tyr Arg Leu Ser

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Input Set : A:\620-91.app

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```

283      210      215      220
285 Pro Ser Gln Ser Pro Ile Asp His Ser Leu Ser Asp Thr Leu Gln Met
286 225      230      235      240
288 His Phe Tyr Glu Thr Cys Pro Tyr Leu Lys Phe Ala His Phe Thr Ala
289      245      250      255
291 Asn Gln Ala Ile Leu Glu Ala Phe Gln Gly Lys Lys Arg Val His Val
292      260      265      270
294 Ile Asp Phe Ser Met Ser Gln Gly Leu Gln Trp Pro Ala Leu Met Gln
295      275      280      285
297 Ala Leu Ala Leu Arg Pro Gly Gly Pro Pro Val Phe Arg Leu Thr Gly
298      290      295      300
300 Ile Gly Pro Pro Ala Pro Asp Asn Phe Asp Tyr Leu His Glu Val Gly
301 305      310      315      320
303 Cys Lys Leu Ala His Leu Ala Glu Ala Ile His Val Glu Phe Glu Tyr
304      325      330      335
306 Arg Gly Phe Val Ala Asn Thr Leu Ala Asp Leu Asp Ala Ser Met Leu
307      340      345      350
309 Glu Leu Arg Pro Ser Glu Ile Glu Ser Val Ala Val Asn Ser Val Phe
310      355      360      365
312 Glu Leu His Lys Leu Leu Gly Arg Pro Gly Ala Ile Asp Lys Val Leu
313      370      375      380
315 Gly Val Val Asn Gln Ile Lys Pro Glu Ile Phe Thr Val Val Glu Gln
316 385      390      395      400
318 Glu Ser Asn His Asn Ser Pro Ile Phe Leu Asp Arg Phe Thr Glu Ser
319      405      410      415
321 Leu His Tyr Tyr Ser Thr Leu Phe Asp Ser Leu Glu Gly Val Pro Ser
322      420      425      430
324 Gly Gln Asp Lys Val Met Ser Glu Val Tyr Leu Gly Lys Gln Ile Cys
325      435      440      445
327 Asn Val Val Ala Cys Asp Gly Pro Asp Arg Val Glu Arg His Glu Thr
328      450      455      460
330 Leu Ser Gln Trp Arg Asn Arg Phe Gly Ser Ala Gly Phe Ala Ala Ala
331 465      470      475      480
333 His Ile Gly Ser Asn Ala Phe Lys Gln Ala Ser Met Leu Leu Ala Leu
334      485      490      495
336 Phe Asn Gly Gly Glu Gly Tyr Arg Val Glu Glu Ser Asp Gly Cys Leu
337      500      505      510
339 Met Leu Gly Trp His Thr Arg Pro Leu Ile Ala Thr Ser Ala Trp Lys
340      515      520      525
342 Leu Ser Thr Asn
343      530
346 <210> SEQ ID NO: 3
347 <211> LENGTH: 2709
348 <212> TYPE: DNA
349 <213> ORGANISM: Triticum aestivum
351 <220> FEATURE:
352 <221> NAME/KEY: misc_feature
353 <222> LOCATION: (6)
354 <223> OTHER INFORMATION: n is any nucleotide

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

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Input Set : A:\620-91.app

Output Set: N:\CRF3\06252001\I485529.raw

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L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
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L:522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
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Input Set : A:\620-91.app

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L:3472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77
L:3473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77
L:3474 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77
L:3477 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77
L:3478 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77
L:3525 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79